Amendments To The Claims:

This listing of the claims will replace all prior versions or listing of claims for this application:

Listing of Claims:

Claims 1-3 (Canceled).

4. (Currently amended) ~~The display method according to claim 1,~~ A display method in which a display signal for displaying a picture is independently applied to each of the pixels arranged like a matrix by using the wiring arranged in the directions of row and column, comprising the steps of:

dividing the pixels into pixel blocks of N rows × N' columns, and

allocating the gradation of n values which are less number than N × N' of the pixels of a pixel block formed from N × N' pixels, wherein, during a predetermined period of time, ~~One gradation among n-gradation given to the pixel block is given to all~~ pixels of ~~the~~ a first pixel block of the divided pixel blocks are allocated a first of the n gradations and are given a first ~~in the next N rows × N' columns for the same period as that when the~~ signal~~, is given to the pixel where one gradation among the n-gradation which corresponds to the~~ and pixels of a second pixel block, adjacent to the first pixel block, of the pixel blocks are ~~is~~ allocated a second of the n gradations and are given a second signal ~~for the pixel block of N rows × N' columns~~.

5. (Currently amended) A display method in which a display signal for displaying a picture is independently applied to each of the pixels arranged like the matrix by using the wiring arranged in the directions of column and column, comprising the steps of:

dividing the pixels into pixel blocks of N rows × N' columns, and

providing signals to the pixels of ~~n~~ N lines in a selection period of n times which are ~~less~~ fewer in number than N.

6. (Currently amended) A display apparatus comprises:

pixel electrodes arranged like a matrix;

display elements which operate according to the voltage of the pixel electrode;

an X driver for supplying an X signal to X signal line arranged in the column direction;

an Y driver for supplying an Y signal to Y signal line arranged in the row direction;

a liquid crystal drive voltage supplying circuit for supplying a liquid crystal drive voltage to a liquid crystal drive voltage line arranged in a column direction;

an XY calculating circuit provided at the intersection parts of the X signal line and the Y signal line and connected to the X signal line and the Y signal line for calculating and outputting the X and Y signals;

a signal comparator for comparing an output of the XY calculating circuit with a reference voltage and outputting a first voltage when the [[the]] output of the XY calculating circuit is higher than the reference voltage, and a second voltage when lower than that;

a switch for controlling the connection of the pixel electrode and the liquid crystal drive voltage line, based on the output of the signal comparator;

n-gradation approximation calculating circuit for dividing the pixels into pixel blocks of N rows × N' columns, and converting the gradation level of each pixel of each block into n-gradation approximation picture signal approximated to n values less than N × N', and

a signal control circuit for controlling the X driver, the Y driver, and liquid crystal drive voltage supplying circuit, according to the n-gradation approximation picture signal.

7. (Currently amended) The display apparatus according to claim 6, wherein n is two, the XY calculating circuit comprises two capacitors connected in series between the X signal line and the Y signal line, wherein the voltage of the connection node of two capacitors is input to the signal comparator as an output value, wherein the voltage VYMAX applied to Y signal line is a high voltage enough to allow the output of the XY ~~arithmatic~~ arithmetic circuit to be higher than the reference voltage of the signal comparator regardless of the voltage applied to X signal line, wherein the voltage VYMIN applied to Y signal line is a high voltage enough to allow the output of the XY ~~arithmatic~~ arithmetic circuit to be lower than the reference voltage of the signal comparator regardless of the voltage applied to X signal line, wherein VYMAX is applied to Y signal lines of the first to N-th rows, and VYMIN is applied to Y signal lines other than the first to Nth row, for the first selection period, wherein the ~~voltage~~ voltages VY1<VY2<...<VYN are applied to Y signal lines of the 1st to N-th rows, VYMAX is applied to Y signal lines of the (N+1)-th to 2N-th rows, and VYMIN is applied to Y signal lines other than the first to 2Nth rows, for the second selection period~~. Hereafter~~, and wherein, for the i-th selection period, ~~wherein~~ the ~~voltage~~ voltages VY1<VY2<...<VYN are applied to Y signal lines of the ((i-2)×N+1)-th to ((i-1)×N)-th rows, VYMAX is applied to Y signal lines of the ((i-1)×N+1)-th to (i ×N)-th rows, and VYMIN is applied to Y signal lines other than the ((i-2)×N+1)-th to (i×N)-th rows.

8. (Currently amended) The display method according to claim [[1]] 4, wherein n is two, the XY calculating circuit comprises a capacitor of which one terminal is connected to the Y signal line and the other terminal to a drain electrode, and a transistor of which a source electrode is connected to the X signal line;

wherein the voltage of the drain electrode of the transistor is input to the signal comparator as an output value, voltage VYMAX applied to Y signal line is a high voltage enough to allow the output of the XY ~~arithmatic~~ arithmetic circuit to be higher than the reference voltage of the signal comparator regardless of the voltage applied to X signal line, voltage VYMIN applied to Y signal line is a high voltage enough to allow the output of the XY ~~arithmatic~~ arithmetic circuit to be lower than the reference voltage of the signal

comparator regardless of the voltage applied to X signal line, voltage VYMAX is applied to Y signal lines of the 1st to N-th rows, and VYMIN is applied to Y signal lines other than the first to N-th row, for the first selection period, the ~~voltage~~ voltages VY1<VY2<...<VYN are applied to Y signal lines of the first to N-th rows, VYMAX is applied to Y signal lines of the (N+1)-th to 2N-th rows, and VYMIN is applied to Y signal lines other than the first to 2N-th rows, for the second selection period~~. Hereafter~~, and wherein, for the i-th selection period, the ~~voltage~~ voltages VY1<VY2<...<VYN are applied to Y signal lines of the ((i-2)×N+1)-th to ((i-1)×N)-th rows, VYMAX is applied to Y signal line of the ((i-1)×N+1)th to (i×N)th rows, and VYMIN is applied to Y signal lines other than the ((i-2)×N+1)-th to (i×N)-th rows.

9. (Currently amended) The display apparatus according to claim 6, wherein n is two, the XY calculating circuit may comprise a capacitor of which one terminal is connected to the Y signal line and the other terminal to a drain electrode, and a transistor of which a source electrode is connected to the X signal line like the above-mentioned circuit, wherein the voltage of the drain electrode of the transistor is input to the signal comparator as an output value~~. The~~, wherein the voltage VYMAX applied to Y signal line is a high voltage enough to allow the output of the XY ~~arithmatic~~ arithmetic circuit to be higher than the reference voltage of the signal comparator regardless of the voltage applied to X signal line, voltage VYMIN applied to Y signal line is a high voltage enough to allow the output of the XY ~~arithmatic~~ arithmetic circuit to be lower than the reference voltage of the signal comparator regardless of the voltage applied to X signal line, wherein VYMAX is applied to Y signal lines of the first to N-th rows, and VYMIN is applied to Y signal lines other than the first to N-th rows, for the first selection period~~. Next~~, wherein the ~~voltage~~ voltages VY1<VY2<...<VYN are next applied to Y signal lines of the first to N-th rows, and VYMIN is applied to Y signal lines other than the first to N-th rows, for the second selection period~~. Hereafter~~, and wherein, for the (2×i-1)-th selection period (i=1,2,3,··), VYMAX is applied to Y signal lines of the ((i-1)×N+1)-th to (i×N)-th rows, and VYMIN is applied to Y signal lines other than the ((i-1)×N+1)-th to (i×N)-th rows, wherein for the (2×i)-th selection period, the voltage VY1<VY2<...<VYN are applied to Y signal lines of

the ((i-1)×N+1)-th to (i×N)-th rows, and VYMIN is applied to Y signal lines other than the ((i-1)×N+1) to (i×N)-th rows.

10. (Original) The display apparatus according to claim 6, wherein in each of N' columns in i=1, 2, ··· 3 in such a display apparatus, wherein the liquid crystal drive voltage lines of the ((2×i-2)×N+1)-th to ((2×i-1)×N)-th rows are connected to one another, the liquid crystal drive voltage lines of the ((2×i-1)×N+1)-th to (2×i×N)-th rows is connected to one another, and the liquid crystal drive voltage lines of the ((2×i-2)×N+1)-th to ((2×i-1)×N)-th rows and the liquid crystal drive voltage lines of the ((2×i-1)×N+1)-th to (2×i×N)-th rows are not connected to one another.

11. (Currently amended) The display apparatus according to claim 6, wherein n is two, and the XY calculating circuit comprises a capacitor of which one terminal is connected to the Y signal line and the other terminal to a drain electrode, and a transistor of which a source electrode is connected to the X signal line~~. In this case~~, wherein the voltage of the drain electrode of the transistor is input to the signal comparator as an output value, VYMAX and VYMID applied to Y signal line are set to a high voltage enough to allow the value of VX + VYMAX + VMID to be higher than the reference voltage of the signal comparator regardless of the value of the voltage VX applied to X signal line, VYMIN applied to Y signal line is set to a high voltage enough to allow the output of the XY arithmatic circuit to be lower than the reference voltage of the signal comparator regardless of the voltage applied to X signal line, wherein for the first selection period, VYMID is applied to Y signal lines of the first to N-th rows, VYMIN is applied to Y signal lines other than the first to N-th rows, wherein for the second selection period, VYMAX is applied to Y signal lines of the first to N-th rows[[.]], wherein VYMID is applied to Y signal lines other than the (N+1)-th to 2N-th rows, VYMIN is applied to Y signal lines other than the first to 2N-th rows, wherein for the third selection period, the ~~voltage~~ voltages VY1<VY2<...<VYN are applied to Y signal lines of the first to N-th rows, VYMAX is applied to Y signal lines of the (N+1)-th to 2N-th rows[[.]], wherein VYMID is applied to Y signal lines of the (2N+1)-th to 3N-th rows, and VYMIN is applied to Y signal lines other than the first to 3N-th rows, and wherein for the i-th selection period, the

~~voltage~~ voltages VY1<VY2<...<VYN are applied to Y signal lines of the ((i-1)×N+1)-th to [[((I-2)×N)-th]] ((i-2)×N)-th rows, VYMAX is applied to Y signal lines of the ((i-2)×N+1)-th to ((i-1)×N)-th rows, VYMID is applied to Y signal lines of the ((i-1) ×N+1)-th to (i×N)-th rows, and VYMIN is applied to Y signal lines other than the ((i-3)×N+1)-th to (i×N)-th rows.

12. (Currently amended) A display apparatus comprises:

red color pixel electrodes, green color pixel electrodes, and blue color pixel electrodes arranged like a matrix;

display elements which operate according to the voltage of the pixel electrode;

an X driver for supplying an X signal to an X signal line arranged in the column direction;

an Y driver for supplying a Y signal to a Y signal line arranged in the row direction;

a liquid crystal drive voltage supplying circuit for supplying a liquid crystal drive voltage to liquid crystal drive voltage lines for red color, green color, and blue color arranged in a column direction;

an XY calculating circuit provided at the intersection parts of the X signal line and the Y signal line and connected to the X signal line and the Y signal line for calculating and outputting the X and Y signals;

a signal comparator for comparing an output of the XY calculating circuit with a reference voltage and outputting a first voltage when the [[the]] output of the XY calculating circuit is higher than the reference voltage, and a second voltage when lower than that;

a switch for controlling the connection of the red color pixel electrode and the red color liquid crystal drive voltage line, based on the output of the signal comparator;

a switch for controlling the connection of the green color pixel electrode and the green color liquid crystal drive voltage line, based on the output of the signal comparator;

a switch for controlling the connection of the green color pixel electrode and the green color liquid crystal drive voltage line, based on the output of the signal comparator;

n-gradation approximation calculating circuit for dividing the red color pixels, green color pixels and blue color pixels into pixel blocks of N rows × N' columns, and converting the color number formed by three pixels of the red color pixel, the green color pixel and the blue color pixel arranged adjacently in a column direction of each block into n-gradation approximation picture signal approximated to n values less than N × N', and

a signal control circuit for controlling the X driver, the Y driver, and the liquid crystal drive voltage supplying circuit, according to the n-gradation approximation picture signal.

13. (Original) The display apparatus according to claim 6, wherein said each pixel comprises:

a plurality of row lines arranged in a row direction, from which a VY signal is supplied;

a plurality of column lines arranged in a row direction, from which a VX signal is supplied;

pixel electrodes provided at intersection parts of row lines and column lines;

switching elements provided at the intersection parts of row lines and column lines, for controlling the connection of a data signal supply line and the pixel electrode, according to the calculating value of corresponding signal VX and signal VY.

14. (Previously presented) The display apparatus according to claim 6, wherein said each pixel comprises:

a plurality of row lines arranged in a row direction, for supplying a signal VY;

a plurality of column lines arranged in a column direction, for supplying a signal VX;

a red color pixel electrode, a green color pixel electrode, and a blue color pixel electrode, each provided at intersection parts of a row line and a column line;

switching elements tp for controlling the connection of a red color data signal supply line and a red color pixel electrode, the connection of a green color data signal supply line and a green color pixel electrode, and the connection of a blue color data signal supply line and a blue color pixel electrode to be in the same state, according to the calculation value of the corresponding VX signal and VY signal.

15. (Original) A display system comprises:

the display apparatus according to claim 6;

a picture generating unit for instructing the display apparatus so as to display a picture; and

a display control for inputting the picture signal to the display apparatus according to the instruction;

wherein said display apparatus has a means for allocating the gradation of n values to each pixel of the pixel block formed from N×N' pixels.

16. (Original) A display system comprises:

the display apparatus according to claim 6;

a picture generating unit for instructing the display apparatus so as to display a picture; and

a display control for inputting the picture signal to the display apparatus according to the instruction;

wherein said display control has a means for allocating the gradation of n values to each pixel of the pixel block composed of N×N' pixels.

17. (Original) A display system comprises:

the display apparatus according to claim 6;

a picture generating unit for instructing the display apparatus so as to display a picture; and

a display control for inputting the picture signal to the display apparatus according to the instruction;

wherein said picture generating unit has a means for allocating the gradation of n values to each pixel of the pixel block composed of N×N' pixels.

18. (Currently amended) ~~A~~ The display apparatus of claim 6, ~~comprises:~~

~~an X driver for supplying an X signal to an NX X signal lines arranged in the column direction;~~

~~an Y driver for supplying a Y signal to a NY Y signal lines arranged in the row direction;~~

~~a signal control circuit for controlling said X driver and said Y driver;~~

~~pixel electrodes provided at intersection parts of a X signal line and a Y signal line, and arranged like a matrix:~~

~~display elements which operates according to the voltage of the pixel electrode;~~

wherein the input picture signal corresponding to the picture to be displayed is input to the signal control circuit, the frame frequency is f(Hz), and when each of a red, a

A' cont.

green, and a blue color is displayed with n bits, the data amount per unit time of the input picture signal is less than NX×NY×(3×n)×f bits/sec.